

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-253883

(43)Date of publication of application : 18.09.2001

(51)Int.Cl. C07D487/22

C08G 79/00

H01B 1/12

H01L 31/04

(21)Application number : 2000-068766 (71)Applicant : NARA INSTITUTE OF  
SCIENCE &  
TECHNOLOGY

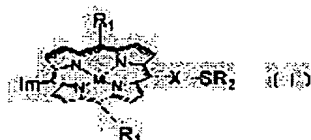
(22)Date of filing : 13.03.2000 (72)Inventor : OBUIE YOSHIAKI  
OGAWA KAZUYA

(54) NEW MERCAPTO-SUBSTITUTED IMIDAZOLYLPORPHYRIN METAL  
COMPLEX MONOMER, POLYMER HAVING THE SAME AS RECURRING  
UNIT AND METHOD FOR PRODUCING THE SAME

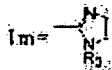
(57)Abstract:

PROBLEM TO BE SOLVED: To provide a device which is a transmitting device of an extremely minute light energy and electronic energy in a nanometer scale capable of being applied and developed to an artificial photosynthesis and a new material for solar cells, allows to strongly and stably connect to the surface of an electrode, has easiness of connection and disconnection and is formed by self- organization.

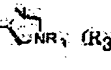
SOLUTION: This mercapto-substituted imidazolyldiporphyrin metal complex monomer is represented by general formula (1) and the polymer has the metal complex monomer as a monomer.



R<sub>1</sub>=アルキル基、芳香族のアリール基、アルキル置換アリール基、  
又はアルキルオキシ置換アリール基  
M=Zn, Cu, Ru, Fe, Co  
X=アリーレン基及びアルキレン基の少なくとも一方を含む二価の基  
R<sub>2</sub>=H 又はアセチル基



(2)



(3)

#### LEGAL STATUS

[Date of request for examination] 13.03.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3383839

[Date of registration] 27.12.2002

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]